

FIG. 1

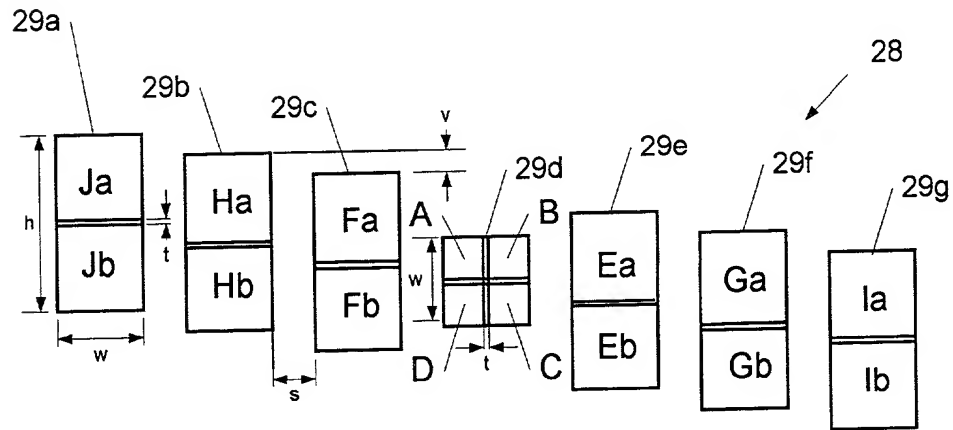


FIG. 2A

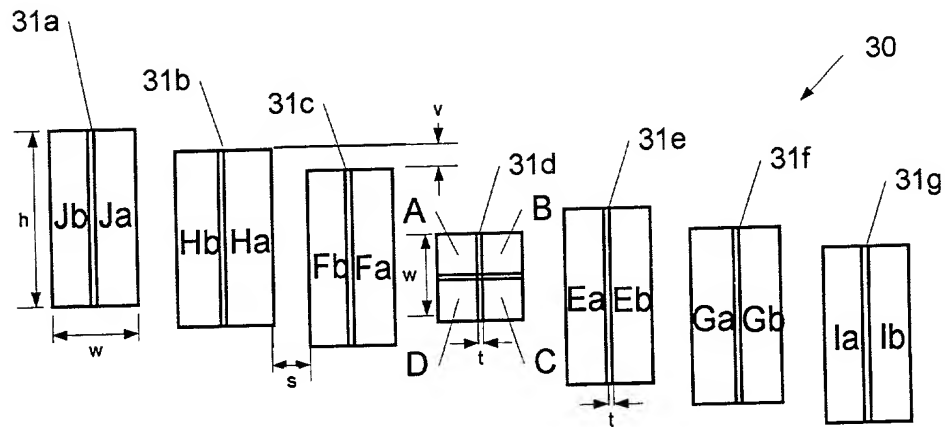


FIG. 2B

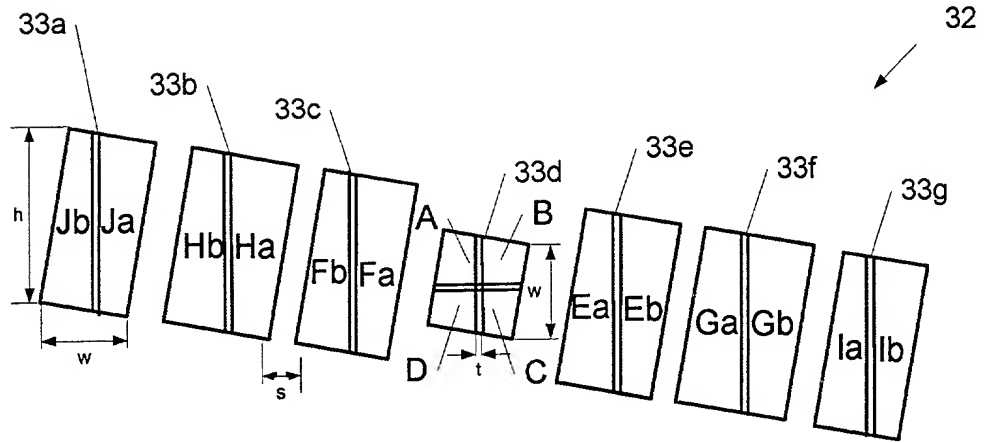
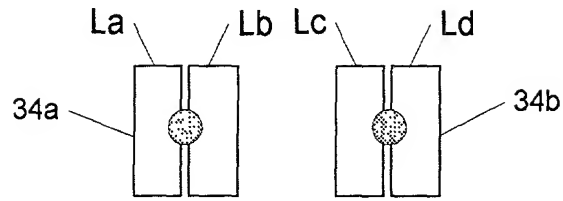
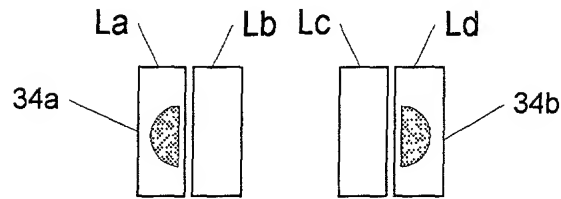


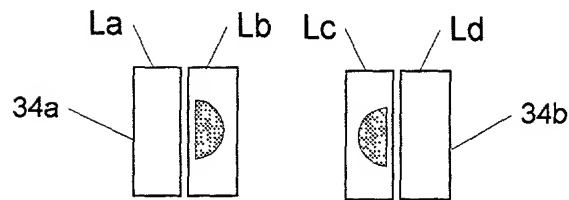
FIG. 2C



Disk in focus

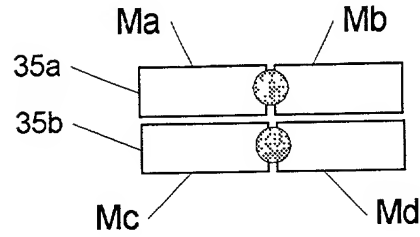


Disk close to objective lens

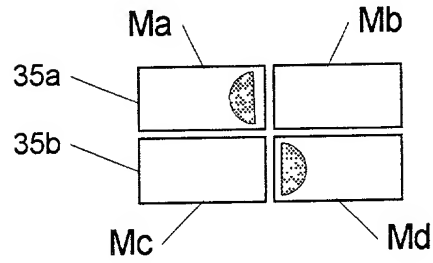


Disk far from objective lens

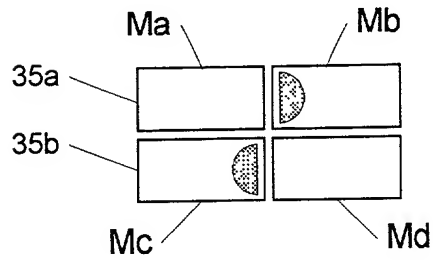
FIG. 3A



Disk in focus



Disk close to objective lens



Disk far from objective lens

FIG. 3B

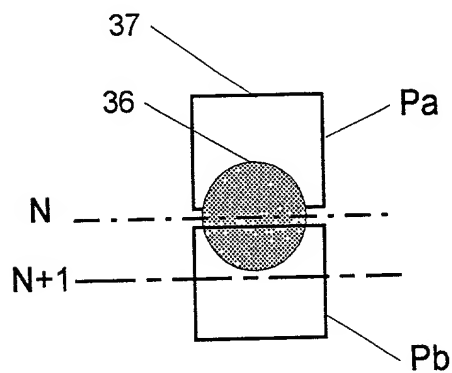


FIG. 4

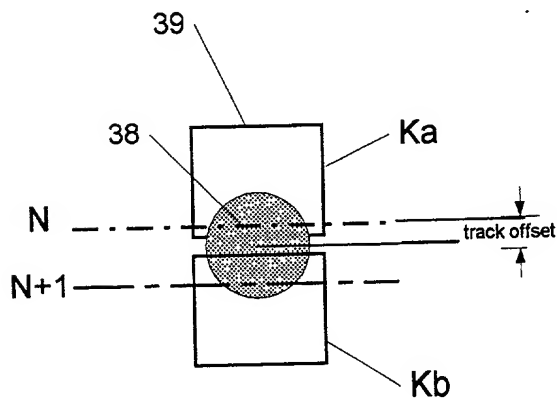


FIG. 5A

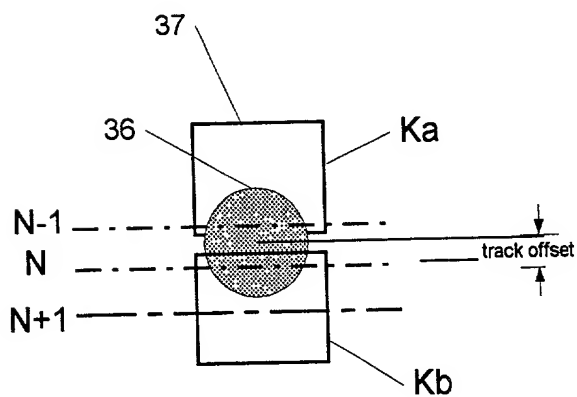
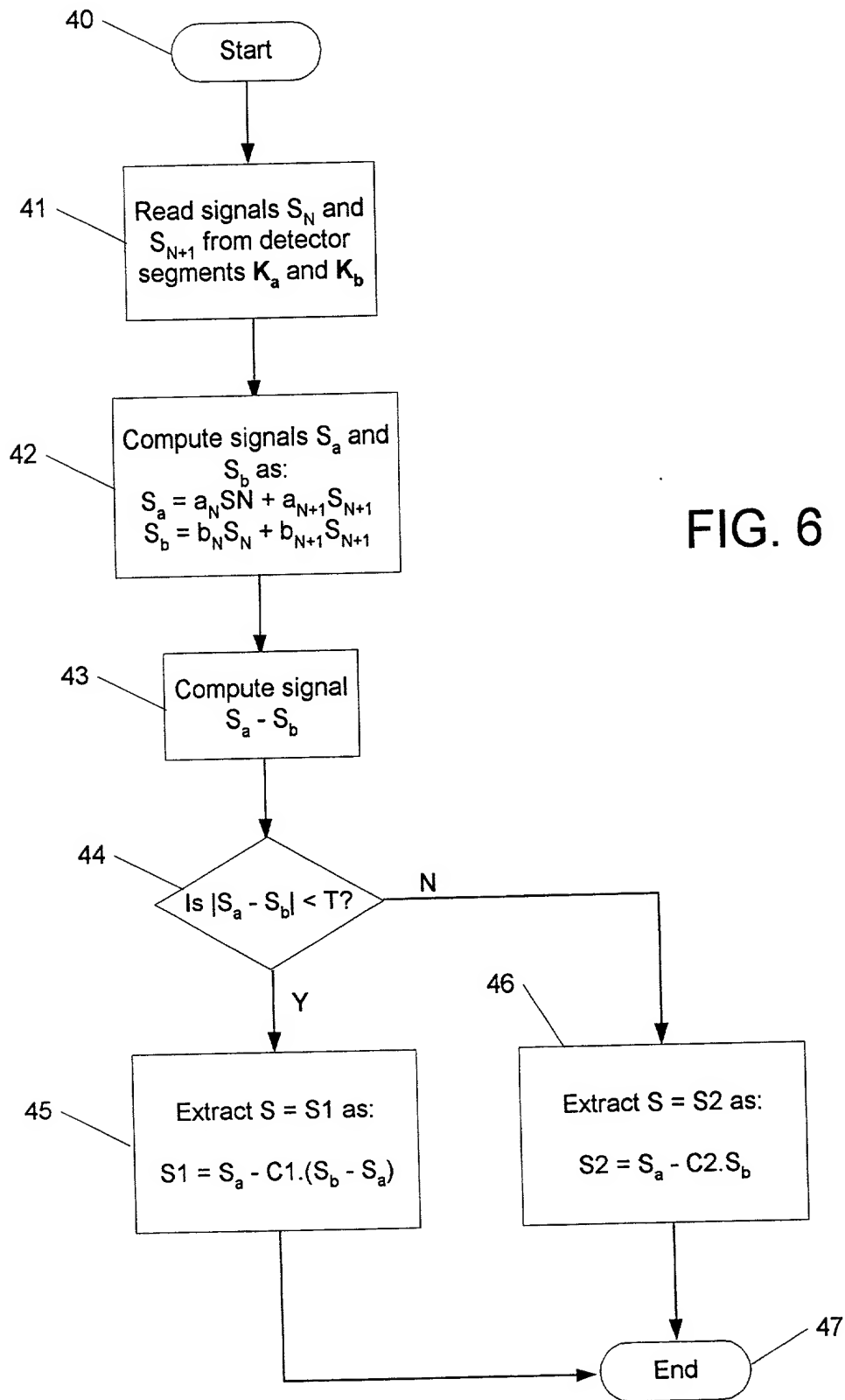


FIG. 5B



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Track Offset (% of track pitch)	No split detectors, no cross-talk cancellation	Split detectors, no cross-talk cancellation	No split detectors, with cross-talk cancellation	Split detectors with cross-talk cancellation
0	6.2	6.8	6.2	5.4
7	6.7	6.4	6.1	5.2
14	9.9	6.6	6.6	5.3
21	16.5	6.25	7.8	5.4
29	23.9	5.9	12.5	5.9

FIG. 7

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Track Offset (% of track pitch)	Coefficient C1 (cross-talk cancellation algorithm 1)	Coefficient C2 (cross-talk cancellation algorithm 2)
0	-0.45	-1
7	-0.32	-0.47
14	-0.21	-0.25
21	-0.1	-0.12
29	0.005	-0.005
36	0.1	0.1
43	0.26	0.21
50	0.4	0.29

FIG. 8

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Track Offset (% of track pitch)	RMS Ratio (cross-talk cancellation algorithm 1)	RMS Ratio (cross-talk cancellation algorithm 2)
0	0.99	1.99
7	0.95	1.41
14	0.95	1.19
21	0.97	1.08
29	1	1
36	1.06	0.95
43	1.15	0.91
50	1.22	0.87

FIG. 9